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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/817,054	03/27/2001	Jeffrey Paul Grundvig	20-149	9186
7590 04/13/2005			EXAMINER	
MANELLI DENISON & SELTER PLLC			VANDERPUYE, KENNETH N	
2000 M Street, N. W., 7th Floor Washington, DC 20036-3307			. ART UNIT	PAPER NUMBER
0 /			2661	

DATE MAILED: 04/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	, X					
	Application No.	Applicant(s)				
	09/817,054	GRUNDVIG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kenneth N Vanderpuye	2661				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).		oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
·_ ·	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowed	,—					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		·				
4)⊠ Claim(s) 1-16 is/are pending in the application	٦.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>6-16</u> is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 5</u> is/are rejected.						
7)⊠ Claim(s) <u>4</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc		the Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	= ' '	,				
11) The oath or declaration is objected to by the E		•				
Priority under 35 U.S.C. § 119		· •				
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 1	119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documen	its have been received.					
2. Certified copies of the priority documen		plication No.				
3. Copies of the certified copies of the price	•	•				
application from the International Burea		.				
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	eceived.				
·						
Attachment(s)						
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08		ormal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Claim Objections

Claim 4 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 1 clearly states that there are more than one of the slot based frames containing synch information. Claim 4 contradicts claim 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- 3, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Boehly et al. (3,742,139)

With regards to claims 1 the admitted prior art teaches a single slot based data burst comprising: a plurality of time slot based data frames (Fig. 5B). What the admitted prior art fails to teach is the limitation, less than all

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but more than one, of said plurality of time slot based data frames including a sync word, remaining ones of said plurality of time slot based data frames not including a sync word. Boehly teaches this feature (col.1 lines 4-35, synchronizing signal present in alternate frames. It would have been obvious to one of ordinary skill in the art to combine the teaching in Boehly with the admitted prior art for the purpose of excluding the synch information from subsequent frames. The motivation is to achieve data bandwidth efficiency and still be able to resynchronize the receiver in case of accidental loss of the synchronization.

Claim 2 is rejected because the admitted prior art teaches TDMA frames.

Claim 5 is rejected because Boehly teaches a data burst wherein said remaining ones of said time slot based data frames include data payload in a position containing said sync word in said less than all of said plurality of time slot based data frames.(inherently obvious since there is no sync signal in the slot).

Claims 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Boehly et al. (3,742,139) and further in view of Marko et al.(5,325,405)

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With regards to claim 3 Boehly fails to teach sync information included at the beginning of said less than all of said plurality of time slot based data frames. Marko teaches this feature(Fig. 1b). It would have been obvious to one of ordinary skill in the art to combine Boehly with Marko for the purpose of including synch information in the beginning of the time slot. The motivation is to avoid having the receiver to look for the synch information buried somewhere in the frame. This saves time.

Allowable Subject Matter

Claims 6-16 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth N Vanderpuye whose telephone number is 571-272-3078. The examiner can normally be reached on M-F(7:30-5:00) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-272-3126.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KNV 4/11/05 ČNNETH VANDERPUYE PRIMARY EXAMINER